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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,353	09/986,353 11/08/2001		Tetsuro Hanawa	025311-0111	5237
22428	7590	10/09/2003		EXAMINER	
FOLEY AN	D LARI	ONER	ESPLIN, DAVID B		
SUITE 500 3000 K STR	EET NW		ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC	20007	2851		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
	Office Action Summers	09/986,353	HANAWA, TETSURO				
	Office Action Summary	Examiner	Art Unit				
		D. Ben Esplin	2851				
The MAILING DATE of this communication appears on the cover sheet with the correspondence addr ss Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)🖂	Responsive to communication(s) filed on <u>03 September 2003</u> .						
2a)⊠	This action is FINAL . 2b) Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)	Claim(s) 1-20 is/are pending in the application.						
	4a) Of the above claim(s) <u>10-20</u> is/are withdrawn from consideration.						
	5) Claim(s) 1-4 and 6-9 is/are allowed.						
·	6)⊠ Claim(s) <u>5</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9) ☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[⊠ All b) Some * c) None of:						
	1. Certified copies of the priority documents	have been received.					
	2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) latent Application (PTO-152)				

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DETAILED ACTION

Information Disclosure Statement

The IDS filed 9/3/03 has been considered only in as much as its relevance has been described in English.

Drawings

The drawings were received on 9/3/03. These drawings are approved.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 5 is rejected under 35 U.S.C. 102(b) as being anticipate by U.S. Patent No. 5,363,171 to Mack.

FIG. 1 of Mack shows a projection aligner for projecting a mask (mask 102) onto a substrate (wafer 104) including a reflectance measuring mechanism (light source 101 and reflectance 106), a branching system (beam splitter 108) and a control mechanism (control electronics/mechanism 107). The aligner of Mack also includes an adjuster (shutter 116) for controlling an intensity of exposure light. Once an appropriate exposure light intensity has been determined by a determining system within the control mechanism, a changing system (shutter 16) changes the illumination of an illumination system (light source 101). Mack further teaches that the control mechanism may include changing a scan speed of a stage, or changing an interval between pulse light emissions (col. 9 lines 5-8). The aligner of Mack also includes an

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optical system (objective lens 103) that forms exposure light that is used to measure the reflectance of the substrate.

Claims 1-4 and 6-9 are allowed.

The following is an examiner's statement of reasons for allowance: The reason that the indicated claims have been indicated as allowable is the amended language of claim 1. Examiner traverses Applicant's assertion that this new language is merely a restatement of an element found in claim 4 prior to amendment. Mack meets the element recited in claim 4 before amendment in that when the entire substrate is interpreted as the area in which reflectance is measured, and then becomes the exposure area, the aligner of Mack reads on this limitation. However, the amended claim 1 includes the further limitation that reflectance is measured from "exposure light from said exposure adjacent area when said mask pattern is projected onto said exposure area".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments referring to claim 5, filed 9/39/03, have been fully considered but they are not persuasive. Applicant's argument that Mack does not teach of an optical system for forming exposure light used measuring reflectance is inaccurate. Mack's aligner includes an

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objective lens 103 for forming exposure light prior to the light being incident on the substrate.

This light is then used to measure reflectance.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Ben Esplin whose telephone number is (703) 305-4022. The examiner can normally be reached on Mon.-Fri. (8am-4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell E. Adams can be reached on (703) 308-2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

DBE

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